

FILE 'HOME' ENTERED AT 13:39:06 ON 07 MAY 2008

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE ENTRY	0.21	TOTAL SESSION	0.21
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FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 13:39:21 ON 07 MAY 2008
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s cysk or cysteine synthase#

FILE 'MEDLINE'

82 CYSK
73445 CYSTEINE
107612 SYNTHASE#
269 CYSTEINE SYNTHASE#
 (CYSTEINE (W) SYNTHASE#)
309 CYSK OR CYSTEINE SYNTHASE#

FILE 'SCISEARCH'

58 CYSK
55567 CYSTEINE
129731 SYNTHASE#
242 CYSTEINE SYNTHASE#
 (CYSTEINE (W) SYNTHASE#)
280 CYSK OR CYSTEINE SYNTHASE#

FILE 'LIFESCI'

53 CYSK
21199 "CYSTEINE"
29544 SYNTHASE#
109 CYSTEINE SYNTHASE#
("CYSTEINE" (W) SYNTHASE#)
L3 146 CYSK OR CYSTEINE SYNTHASE#

FILE 'BIOTECHDS'

58 CYSK
5098 CYSTEINE
7240 SYNTHASE#
70 CYSTEINE SYNTHASE#
 (CYSTEINE (W) SYNTHASE#)
95 CYSK OR CYSTEINE SYNTHASE#

FILE 'BTOSTS'

FILE BIOSIS
82 CYSK
72786 CYSTEINE
118475 SYNTHASE#
275 CYSTEINE SYNTHASE#
 (CYSTEINE (W) SYNTHASE#)
I 5 335 CYSK OR CYSTEINE SYNTHASE#

FILE 'EMBASE'

FILE: ENZYME
65 CYSK
57869 "CYSTEINE"
108341 SYNTHASE#
233 CYSTEINE SYNTHASE#
("CYSTEINE" (W) SYNTHASE#)

L6 266 CYSK OR CYSTEINE SYNTHASE#

FILE 'HCAPLUS'
 207 CYSK
 113054 CYSTEINE
 114637 SYNTHASE#
 426 CYSTEINE SYNTHASE#
 (CYSTEINE(W) SYNTHASE#)

L7 537 CYSK OR CYSTEINE SYNTHASE#

FILE 'NTIS'
 0 CYSK
 521 CYSTEINE
 294 SYNTHASE#
 0 CYSTEINE SYNTHASE#
 (CYSTEINE(W) SYNTHASE#)

L8 0 CYSK OR CYSTEINE SYNTHASE#

FILE 'ESBIOBASE'
 46 CYSK
 28558 CYSTEINE
 54244 SYNTHASE#
 124 CYSTEINE SYNTHASE#
 (CYSTEINE(W) SYNTHASE#)

L9 154 CYSK OR CYSTEINE SYNTHASE#

FILE 'BIOTECHNO'
 43 CYSK
 22339 CYSTEINE
 29457 SYNTHASE#
 130 CYSTEINE SYNTHASE#
 (CYSTEINE(W) SYNTHASE#)

L10 151 CYSK OR CYSTEINE SYNTHASE#

FILE 'WPIDS'
 52 CYSK
 11722 CYSTEINE
 6793 SYNTHASE#
 51 CYSTEINE SYNTHASE#
 (CYSTEINE(W) SYNTHASE#)

L11 72 CYSK OR CYSTEINE SYNTHASE#

TOTAL FOR ALL FILES

L12 2345 CYSK OR CYSTEINE SYNTHASE#

=> s (serine or ser)(15a)(rich or high or level# or yield# or optimiz?)

FILE 'MEDLINE'
 104476 SERINE
 24227 SER
 97298 RICH
 1628405 HIGH
 1728866 LEVEL#
 148032 YIELD#
 86595 OPTIMIZ?

L13 6126 (SERINE OR SER)(15A)(RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ?)

FILE 'SCISEARCH'
 60386 SERINE
 25468 SER
 182902 RICH
 2495375 HIGH

1857333 LEVEL#
469670 YIELD#
296759 OPTIMIZ?
L14 5582 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'LIFESCI'
25076 SERINE
12695 SER
42324 RICH
452482 HIGH
519831 LEVEL#
64869 YIELD#
23816 OPTIMIZ?
L15 3464 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'BIOTECHDS'
5782 SERINE
5928 SER
5272 RICH
85899 HIGH
60173 LEVEL#
43309 YIELD#
21488 OPTIMIZ?
L16 708 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'BIOSIS'
82532 SERINE
26259 SER
134104 RICH
1833264 HIGH
1945774 LEVEL#
380018 YIELD#
85361 OPTIMIZ?
L17 7142 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'EMBASE'
67554 SERINE
24058 SER
86612 RICH
1556063 HIGH
1965291 LEVEL#
157476 YIELD#
82286 OPTIMIZ?
L18 5467 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'HCAPLUS'
119700 SERINE
38596 SER
315641 RICH
4313341 HIGH
2553316 LEVEL#
1269022 YIELD#
360435 OPTIMIZ?
L19 10355 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'NTIS'

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578 SERINE
438 SER
9733 RICH
340332 HIGH
238143 LEVEL#
56808 YIELD#
62468 OPTIMIZ?
L20      81 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
      ?)

FILE 'ESBIOBASE'
32396 SERINE
14901 SER
56532 RICH
641710 HIGH
717809 LEVEL#
95471 YIELD#
42201 OPTIMIZ?
L21      4374 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
      ?)

FILE 'BIOTECHNO'
28989 SERINE
11924 SER
29372 RICH
299126 HIGH
367944 LEVEL#
41645 YIELD#
16086 OPTIMIZ?
L22      3241 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
      ?)

FILE 'WPIDS'
11087 SERINE
13584 SER
41223 RICH
2375938 HIGH
706149 LEVEL#
314587 YIELD#
61673 OPTIMIZ?
L23      705 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
      ?)

TOTAL FOR ALL FILES
L24      47245 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
      ?)

=> s l12 and l24
FILE 'MEDLINE'
L25      13 L1 AND L13

FILE 'SCISEARCH'
L26      9 L2 AND L14

FILE 'LIFESCI'
L27      6 L3 AND L15

FILE 'BIOTECHDS'
L28      2 L4 AND L16

FILE 'BIOSIS'
L29      9 L5 AND L17

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FILE 'EMBASE'
L30 6 L6 AND L18

FILE 'HCAPLUS'
L31 12 L7 AND L19

FILE 'NTIS'
L32 0 L8 AND L20

FILE 'ESBIOBASE'
L33 5 L9 AND L21

FILE 'BIOTECHNO'
L34 8 L10 AND L22

FILE 'WPIDS'
L35 1 L11 AND L23

TOTAL FOR ALL FILES
L36 71 L12 AND L24

=> s l12 and coexpress?

FILE 'MEDLINE'
15797 COEXPRESS?
L37 2 L1 AND COEXPRESS?

FILE 'SCISEARCH'
16293 COEXPRESS?
L38 2 L2 AND COEXPRESS?

FILE 'LIFESCI'
7659 COEXPRESS?
L39 2 L3 AND COEXPRESS?

FILE 'BIOTECHDS'
826 COEXPRESS?
L40 1 L4 AND COEXPRESS?

FILE 'BIOSIS'
16063 COEXPRESS?
L41 2 L5 AND COEXPRESS?

FILE 'EMBASE'
14913 COEXPRESS?
L42 1 L6 AND COEXPRESS?

FILE 'HCAPLUS'
15129 COEXPRESS?
L43 2 L7 AND COEXPRESS?

FILE 'NTIS'
39 COEXPRESS?
L44 0 L8 AND COEXPRESS?

FILE 'ESBIOBASE'
11681 COEXPRESS?
L45 1 L9 AND COEXPRESS?

FILE 'BIOTECHNO'
7587 COEXPRESS?
L46 1 L10 AND COEXPRESS?

FILE 'WPIDS'
215 COEXPRESS?
L47 0 L11 AND COEXPRESS?

TOTAL FOR ALL FILES
L48 14 L12 AND COEXPRESS?

=> s (amino acid or ser or serine)(15a) (composition# or profil?)
FILE 'MEDLINE'
679698 AMINO
1545785 ACID
512917 AMINO ACID
(AMINO(W)ACID)
24227 SER
104476 SERINE
189419 COMPOSITION#
295830 PROFIL?
L49 14609 (AMINO ACID OR SER OR SERINE)(15A) (COMPOSITION# OR PROFIL?)

FILE 'SCISEARCH'
436194 AMINO
1284495 ACID
229538 AMINO ACID
(AMINO(W)ACID)
25468 SER
60386 SERINE
481688 COMPOSITION#
450081 PROFIL?
L50 10441 (AMINO ACID OR SER OR SERINE)(15A) (COMPOSITION# OR PROFIL?)

FILE 'LIFESCI'
188499 "AMINO"
346634 "ACID"
128460 AMINO ACID
("AMINO" (W) "ACID")
12695 SER
25076 SERINE
112277 COMPOSITION#
70621 PROFIL?
L51 6520 (AMINO ACID OR SER OR SERINE)(15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOTECHDS'
77138 AMINO
156885 ACID
56317 AMINO ACID
(AMINO(W)ACID)
5928 SER
5782 SERINE
48820 COMPOSITION#
13472 PROFIL?
L52 3057 (AMINO ACID OR SER OR SERINE)(15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOSIS'
607898 AMINO
1529894 ACID
351102 AMINO ACID
(AMINO(W)ACID)
26259 SER
82532 SERINE
399670 COMPOSITION#
283754 PROFIL?

L53 25509 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'EMBASE'

477055 "AMINO"
1561386 "ACID"
322430 AMINO ACID
("AMINO" (W) "ACID")
24058 SER
67554 SERINE
169493 COMPOSITION#
246818 PROFIL?

L54 13983 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'HCAPLUS'

1167276 AMINO
4574559 ACID
588346 AMINO ACID
(AMINO (W) ACID)
38596 SER
119700 SERINE
1045977 COMPOSITION#
1531580 COMPN
2132732 COMPOSITION#
(COMPOSITION# OR COMPN)
510830 PROFIL?

L55 40071 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'NTIS'

7322 AMINO
45258 ACID
2654 AMINO ACID
(AMINO (W) ACID)
438 SER
578 SERINE
72162 COMPOSITION#
59406 PROFIL?

L56 237 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'ESBIOBASE'

205248 AMINO
402935 ACID
113740 AMINO ACID
(AMINO (W) ACID)
14901 SER
32396 SERINE
104790 COMPOSITION#
121152 PROFIL?

L57 4140 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOTECHNO'

204625 AMINO
349810 ACID
154660 AMINO ACID
(AMINO (W) ACID)
11924 SER
28989 SERINE
38895 COMPOSITION#
42958 PROFIL?

L58 6366 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'WPIDS'

299450 AMINO

1143063 ACID
87042 AMINO ACID
 (AMINO(W)ACID)
13584 SER
11087 SERINE
845784 COMPOSITION#
 8849 COMPN
398425 COMPSN
114205 COMPSNS
1029782 COMPOSITION#
 (COMPOSITION# OR COMPN OR COMPSN OR COMPSNS)
221069 PROFIL?
L59 5574 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

TOTAL FOR ALL FILES

L60 130507 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

=> s l12 and 160

FILE 'MEDLINE'

L61 8 L1 AND L49

FILE 'SCISEARCH'

L62 8 L2 AND L50

FILE 'LIFESCI'

L63 3 L3 AND L51

FILE 'BIOTECHDS'

L64 2 L4 AND L52

FILE 'BIOSIS'

L65 18 L5 AND L53

FILE 'EMBASE'

L66 8 L6 AND L54

FILE 'HCAPLUS'

L67 18 L7 AND L55

FILE 'NTIS'

L68 0 L8 AND L56

FILE 'ESBIOBASE'

L69 3 L9 AND L57

FILE 'BIOTECHNO'

L70 4 L10 AND L58

FILE 'WPIDS'

L71 2 L11 AND L59

TOTAL FOR ALL FILES

L72 74 L12 AND L60

=> s (heterologous or foreign or recombinant) (5a)protein# (10a) (produc? or express?
or optimiz?)

FILE 'MEDLINE'

 53007 HETEROLOGOUS

 65999 FOREIGN

 294716 RECOMBINANT

 2245712 PROTEIN#

 1479209 PRODUC?

1189611 EXPRESS?
86595 OPTIMIZ?
L73 11277 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'SCISEARCH'
25505 HETEROLOGOUS
35464 FOREIGN
175583 RECOMBINANT
1774394 PROTEIN#
2135740 PRODUC?
1526773 EXPRESS?
296759 OPTIMIZ?
L74 11472 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'LIFESCI'
16860 HETEROLOGOUS
9728 FOREIGN
78715 RECOMBINANT
683363 PROTEIN#
600691 PRODUC?
488130 EXPRESS?
23816 OPTIMIZ?
L75 8672 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'BIOTECHDS'
12440 HETEROLOGOUS
6925 FOREIGN
110954 RECOMBINANT
179354 PROTEIN#
246622 PRODUC?
166239 EXPRESS?
21488 OPTIMIZ?
L76 31791 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'BIOSIS'
35675 HETEROLOGOUS
35956 FOREIGN
213769 RECOMBINANT
2115796 PROTEIN#
2167262 PRODUC?
1447830 EXPRESS?
85361 OPTIMIZ?
L77 13912 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'EMBASE'
24656 HETEROLOGOUS
36978 FOREIGN
196365 RECOMBINANT
1841094 PROTEIN#
1393403 PRODUC?
1092766 EXPRESS?
82286 OPTIMIZ?
L78 9173 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'HCAPLUS'
35433 HETEROLOGOUS

53583 FOREIGN
215028 RECOMBINANT
2507260 PROTEIN#
4739035 PRODUC?
1080289 PRODN
5257422 PRODUC?
 (PRODUC? OR PRODN)
1446128 EXPRESS?
360435 OPTIMIZ?
L79 26253 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC?
 ? OR EXPRESS? OR OPTIMIZ?)

FILE 'NTIS'
 358 HETEROLOGOUS
390920 FOREIGN
 1887 RECOMBINANT
20815 PROTEIN#
383352 PRODUC?
 42085 EXPRESS?
 62468 OPTIMIZ?
L80 186 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC?
 ? OR EXPRESS? OR OPTIMIZ?)

FILE 'ESBIOBASE'
 15205 HETEROLOGOUS
 12571 FOREIGN
 98984 RECOMBINANT
881143 PROTEIN#
712812 PRODUC?
696236 EXPRESS?
 42201 OPTIMIZ?
L81 9584 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC?
 ? OR EXPRESS? OR OPTIMIZ?)

FILE 'BIOTECHNO'
 14199 HETEROLOGOUS
 6070 FOREIGN
125134 RECOMBINANT
653195 PROTEIN#
394590 PRODUC?
452182 EXPRESS?
 16086 OPTIMIZ?
L82 8130 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC?
 ? OR EXPRESS? OR OPTIMIZ?)

FILE 'WPIDS'
 11979 HETEROLOGOUS
 52020 FOREIGN
 52731 RECOMBINANT
195750 PROTEIN#
2700178 PRODUC?
 159549 EXPRESS?
 61673 OPTIMIZ?
L83 6267 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC?
 ? OR EXPRESS? OR OPTIMIZ?)

TOTAL FOR ALL FILES
L84 136717 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN# (10A) (PRODUC?
 ? OR EXPRESS? OR OPTIMIZ?)

=> s 112 and 184
FILE 'MEDLINE'

L85 5 L1 AND L73

FILE 'SCISEARCH'
L86 5 L2 AND L74

FILE 'LIFESCI'
L87 6 L3 AND L75

FILE 'BIOTECHDS'
L88 6 L4 AND L76

FILE 'BIOSIS'
L89 3 L5 AND L77

FILE 'EMBASE'
L90 2 L6 AND L78

FILE 'HCAPLUS'
L91 9 L7 AND L79

FILE 'NTIS'
L92 0 L8 AND L80

FILE 'ESBIOBASE'
L93 4 L9 AND L81

FILE 'BIOTECHNO'
L94 2 L10 AND L82

FILE 'WPIDS'
L95 2 L11 AND L83

TOTAL FOR ALL FILES
L96 44 L12 AND L84

=> s 160 and 184
FILE 'MEDLINE'
L97 56 L49 AND L73

FILE 'SCISEARCH'
L98 55 L50 AND L74

FILE 'LIFESCI'
L99 42 L51 AND L75

FILE 'BIOTECHDS'
L100 568 L52 AND L76

FILE 'BIOSIS'
L101 65 L53 AND L77

FILE 'EMBASE'
L102 70 L54 AND L78

FILE 'HCAPLUS'
L103 196 L55 AND L79

FILE 'NTIS'
L104 0 L56 AND L80

FILE 'ESBIOBASE'
L105 48 L57 AND L81

FILE 'BIOTECHNO'
L106 74 L58 AND L82

FILE 'WPIDS'
L107 61 L59 AND L83

TOTAL FOR ALL FILES
L108 1235 L60 AND L84

=> s l108 and coli

FILE 'MEDLINE'
272003 COLI
L109 33 L97 AND COLI

FILE 'SCISEARCH'
261958 COLI
L110 29 L98 AND COLI

FILE 'LIFESCI'
111372 COLI
L111 24 L99 AND COLI

FILE 'BIOTECHDS'
50744 COLI
L112 140 L100 AND COLI

FILE 'BIOSIS'
328942 COLI
L113 32 L101 AND COLI

FILE 'EMBASE'
195802 COLI
L114 38 L102 AND COLI

FILE 'HCAPLUS'
299483 COLI
L115 75 L103 AND COLI

FILE 'NTIS'
2962 COLI
L116 0 L104 AND COLI

FILE 'ESBIOBASE'
82752 COLI
L117 20 L105 AND COLI

FILE 'BIOTECHNO'
94549 COLI
L118 32 L106 AND COLI

FILE 'WPIDS'
32693 COLI
L119 19 L107 AND COLI

TOTAL FOR ALL FILES
L120 442 L108 AND COLI

=> s (l36 or l48 or l72 or l96 or l120)

FILE 'MEDLINE'
L121 56 (L25 OR L37 OR L61 OR L85 OR L109)

FILE 'SCISEARCH'
L122 49 (L26 OR L38 OR L62 OR L86 OR L110)

FILE 'LIFESCI'
L123 37 (L27 OR L39 OR L63 OR L87 OR L111)

FILE 'BIOTECHDS'
L124 146 (L28 OR L40 OR L64 OR L88 OR L112)

FILE 'BIOSIS'
L125 60 (L29 OR L41 OR L65 OR L89 OR L113)

FILE 'EMBASE'
L126 50 (L30 OR L42 OR L66 OR L90 OR L114)

FILE 'HCAPLUS'
L127 111 (L31 OR L43 OR L67 OR L91 OR L115)

FILE 'NTIS'
L128 0 (L32 OR L44 OR L68 OR L92 OR L116)

FILE 'ESBIOBASE'
L129 29 (L33 OR L45 OR L69 OR L93 OR L117)

FILE 'BIOTECHNO'
L130 43 (L34 OR L46 OR L70 OR L94 OR L118)

FILE 'WPIDS'
L131 23 (L35 OR L47 OR L71 OR L95 OR L119)

TOTAL FOR ALL FILES
L132 604 (L36 OR L48 OR L72 OR L96 OR L120)

=> s l132 not 2004-2008/py

FILE 'MEDLINE'
2828837 2004-2008/PY
(20040000-20089999/PY)
L133 44 L121 NOT 2004-2008/PY

FILE 'SCISEARCH'
5257377 2004-2008/PY
(20040000-20089999/PY)
L134 35 L122 NOT 2004-2008/PY

FILE 'LIFESCI'
610068 2004-2008/PY
L135 26 L123 NOT 2004-2008/PY

FILE 'BIOTECHDS'
110412 2004-2008/PY
L136 79 L124 NOT 2004-2008/PY

FILE 'BIOSIS'
2438788 2004-2008/PY
L137 50 L125 NOT 2004-2008/PY

FILE 'EMBASE'
2465331 2004-2008/PY
L138 33 L126 NOT 2004-2008/PY

FILE 'HCAPLUS'
5685072 2004-2008/PY

L139 75 L127 NOT 2004-2008/PY

FILE 'NTIS'
68767 2004-2008/PY
L140 0 L128 NOT 2004-2008/PY

FILE 'ESBIOBASE'
1416926 2004-2008/PY
L141 18 L129 NOT 2004-2008/PY

FILE 'BIOTECHNO'
586 2004-2008/PY
L142 43 L130 NOT 2004-2008/PY

FILE 'WPIDS'
4801415 2004-2008/PY
L143 4 L131 NOT 2004-2008/PY

TOTAL FOR ALL FILES
L144 407 L132 NOT 2004-2008/PY

=> dup rem l144
PROCESSING COMPLETED FOR L144
L145 201 DUP REM L144 (206 DUPLICATES REMOVED)

=> s leptin
FILE 'MEDLINE'
L146 13799 LEPTIN

FILE 'SCISEARCH'
L147 18045 LEPTIN

FILE 'LIFESCI'
L148 1942 LEPTIN

FILE 'BIOTECHDS'
L149 365 LEPTIN

FILE 'BIOSIS'
L150 16507 LEPTIN

FILE 'EMBASE'
L151 14251 LEPTIN

FILE 'HCAPLUS'
L152 15687 LEPTIN

FILE 'NTIS'
L153 22 LEPTIN

FILE 'ESBIOBASE'
L154 8624 LEPTIN

FILE 'BIOTECHNO'
L155 2512 LEPTIN

FILE 'WPIDS'
L156 977 LEPTIN

TOTAL FOR ALL FILES
L157 92731 LEPTIN

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=> s 1157(10a) (ser or serine)
FILE 'MEDLINE'
    24227 SER
    104476 SERINE
L158        12 L146(10A) (SER OR SERINE)

FILE 'SCISEARCH'
    25468 SER
    60386 SERINE
L159        15 L147(10A) (SER OR SERINE)

FILE 'LIFESCI'
    12695 SER
    25076 SERINE
L160        3 L148(10A) (SER OR SERINE)

FILE 'BIOTECHDS'
    5928 SER
    5782 SERINE
L161        5 L149(10A) (SER OR SERINE)

FILE 'BIOSIS'
    26259 SER
    82532 SERINE
L162        12 L150(10A) (SER OR SERINE)

FILE 'EMBASE'
    24058 SER
    67554 SERINE
L163        14 L151(10A) (SER OR SERINE)

FILE 'HCAPLUS'
    38596 SER
    119700 SERINE
L164        17 L152(10A) (SER OR SERINE)

FILE 'NTIS'
    438 SER
    578 SERINE
L165        0 L153(10A) (SER OR SERINE)

FILE 'ESBIOBASE'
    14901 SER
    32396 SERINE
L166        14 L154(10A) (SER OR SERINE)

FILE 'BIOTECHNO'
    11924 SER
    28989 SERINE
L167        4 L155(10A) (SER OR SERINE)

FILE 'WPIDS'
    13584 SER
    11087 SERINE
L168        5 L156(10A) (SER OR SERINE)

TOTAL FOR ALL FILES
L169        101 L157(10A) (SER OR SERINE)

=> s 1157 and ((ser or serine)(8a)(rich or level#) or (amino acid)(2a)composition)
FILE 'MEDLINE'
    24227 SER
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104476 SERINE
97298 RICH
1728866 LEVEL#
3591 (SER OR SERINE) (8A) (RICH OR LEVEL#)
679698 AMINO
1545785 ACID
512917 AMINO ACID
(AMINO(W)ACID)
179800 COMPOSITION
10381 (AMINO ACID) (2A) COMPOSITION
L170 8 L146 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
COMPOSITION)

FILE 'SCISEARCH'
25468 SER
60386 SERINE
182902 RICH
1857333 LEVEL#
3200 (SER OR SERINE) (8A) (RICH OR LEVEL#)
436194 AMINO
1284495 ACID
229538 AMINO ACID
(AMINO(W)ACID)
433876 COMPOSITION
7145 (AMINO ACID) (2A) COMPOSITION
L171 7 L147 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
COMPOSITION)

FILE 'LIFESCI'
12695 SER
25076 SERINE
42324 RICH
519831 LEVEL#
1902 (SER OR SERINE) (8A) (RICH OR LEVEL#)
188499 "AMINO"
346634 "ACID"
128460 AMINO ACID
("AMINO"(W)"ACID")
107815 COMPOSITION
4806 (AMINO ACID) (2A) COMPOSITION
L172 1 L148 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
COMPOSITION)

FILE 'BIOTECHDS'
5928 SER
5782 SERINE
5272 RICH
60173 LEVEL#
246 (SER OR SERINE) (8A) (RICH OR LEVEL#)
77138 AMINO
156885 ACID
56317 AMINO ACID
(AMINO(W)ACID)
43596 COMPOSITION
882 (AMINO ACID) (2A) COMPOSITION
L173 3 L149 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
COMPOSITION)

FILE 'BIOSIS'
26259 SER
82532 SERINE
134104 RICH

1945774 LEVEL#
3980 (SER OR SERINE) (8A) (RICH OR LEVEL#)
607898 AMINO
1529894 ACID
351102 AMINO ACID
 (AMINO(W)ACID)
364911 COMPOSITION
19281 (AMINO ACID) (2A) COMPOSITION
L174 6 L150 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
) COMPOSITION

FILE 'EMBASE'
24058 SER
67554 SERINE
86612 RICH
1965291 LEVEL#
3169 (SER OR SERINE) (8A) (RICH OR LEVEL#)
477055 "AMINO"
1561386 "ACID"
322430 AMINO ACID
 ("AMINO" (W) "ACID")
162494 COMPOSITION
11083 (AMINO ACID) (2A) COMPOSITION
L175 10 L151 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
) COMPOSITION

FILE 'HCAPLUS'
38596 SER
119700 SERINE
315641 RICH
2553316 LEVEL#
4948 (SER OR SERINE) (8A) (RICH OR LEVEL#)
1167276 AMINO
4574559 ACID
588346 AMINO ACID
 (AMINO(W)ACID)
723003 COMPOSITION
1531580 COMPN
1961864 COMPOSITION
 (COMPOSITION OR COMPN)
29911 (AMINO ACID) (2A) COMPOSITION
L176 26 L152 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
) COMPOSITION

FILE 'NTIS'
438 SER
578 SERINE
9733 RICH
238143 LEVEL#
26 (SER OR SERINE) (8A) (RICH OR LEVEL#)
7322 AMINO
45258 ACID
2654 AMINO ACID
 (AMINO(W)ACID)
64397 COMPOSITION
169 (AMINO ACID) (2A) COMPOSITION
L177 0 L153 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
) COMPOSITION

FILE 'ESBIOBASE'
14901 SER
32396 SERINE

56532 RICH
717809 LEVEL#
2352 (SER OR SERINE) (8A) (RICH OR LEVEL#)
205248 AMINO
402935 ACID
113740 AMINO ACID
(AMINO(W)ACID)
99818 COMPOSITION
2421 (AMINO ACID) (2A) COMPOSITION
L178 6 L154 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
COMPOSITION)

FILE 'BIOTECHNO'
11924 SER
28989 SERINE
29372 RICH
367944 LEVEL#
1708 (SER OR SERINE) (8A) (RICH OR LEVEL#)
204625 AMINO
349810 ACID
154660 AMINO ACID
(AMINO(W)ACID)
36875 COMPOSITION
5058 (AMINO ACID) (2A) COMPOSITION
L179 3 L155 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
COMPOSITION)

FILE 'WPIDS'
13584 SER
11087 SERINE
41223 RICH
706149 LEVEL#
206 (SER OR SERINE) (8A) (RICH OR LEVEL#)
299450 AMINO
1143063 ACID
87042 AMINO ACID
(AMINO(W)ACID)
820929 COMPOSITION
8849 COMPN
398425 COMPSN
979566 COMPOSITION
(COMPOSITION OR COMPN OR COMPSN)
1210 (AMINO ACID) (2A) COMPOSITION
L180 3 L156 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
COMPOSITION)

TOTAL FOR ALL FILES
L181 73 L157 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
COMPOSITION)

=> s (l169 or l181) not 2004-2008/py
FILE 'MEDLINE'
2828837 2004-2008/PY
(20040000-20089999/PY)
L182 6 (L158 OR L170) NOT 2004-2008/PY

FILE 'SCISEARCH'
5257377 2004-2008/PY
(20040000-20089999/PY)
L183 9 (L159 OR L171) NOT 2004-2008/PY

FILE 'LIFESCI'

610068 2004-2008/PY
L184 2 (L160 OR L172) NOT 2004-2008/PY

FILE 'BIOTECHDS'
110412 2004-2008/PY
L185 1 (L161 OR L173) NOT 2004-2008/PY

FILE 'BIOSIS'
2438788 2004-2008/PY
L186 6 (L162 OR L174) NOT 2004-2008/PY

FILE 'EMBASE'
2465331 2004-2008/PY
L187 10 (L163 OR L175) NOT 2004-2008/PY

FILE 'HCAPLUS'
5685072 2004-2008/PY
L188 8 (L164 OR L176) NOT 2004-2008/PY

FILE 'NTIS'
68767 2004-2008/PY
L189 0 (L165 OR L177) NOT 2004-2008/PY

FILE 'ESBIOBASE'
1416926 2004-2008/PY
L190 7 (L166 OR L178) NOT 2004-2008/PY

FILE 'BIOTECHNO'
586 2004-2008/PY
L191 6 (L167 OR L179) NOT 2004-2008/PY

FILE 'WPIDS'
4801415 2004-2008/PY
L192 0 (L168 OR L180) NOT 2004-2008/PY

TOTAL FOR ALL FILES
L193 55 (L169 OR L181) NOT 2004-2008/PY

=> dup rem 1193
PROCESSING COMPLETED FOR L193
L194 14 DUP REM L193 (41 DUPLICATES REMOVED)

=> d tot

L194 ANSWER 1 OF 14 MEDLINE on STN DUPLICATE 1
TI Engineering Escherichia coli for increased productivity of serine
-rich proteins based on proteome profiling.
SO Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp.
5772-81.
Journal code: 7605801. ISSN: 0099-2240.
AU Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup
AN 2003497591 MEDLINE

L194 ANSWER 2 OF 14 MEDLINE on STN DUPLICATE 2
TI Insulin resistance and lipodystrophy in mice lacking ribosomal S6 kinase
2.
SO Diabetes, (2003 Jun) Vol. 52, No. 6, pp. 1340-6.
Journal code: 0372763. ISSN: 0012-1797.
AU El-Haschimi Karim; Dufresne Scott D; Hirshman Michael F; Flier Jeffrey S;
Goodyear Laurie J; Bjorbaek Christian
AN 2003292836 MEDLINE

L194 ANSWER 3 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN
DUPLICATE 3

TI Cooperation between insulin and leptin in the modulation of vascular tone
SO HYPERTENSION, (AUG 2003) Vol. 42, No. 2, pp. 166-170.
ISSN: 0194-911X.

AU Vecchione C; Aretini A; Maffei A; Marino G; Selvettella G; Poulet R;
Trimarco V; Frati G; Lembo G (Reprint)

AN 2003:672025 SCISEARCH

L194 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Acute and chronic leptin treatment mediate contrasting effects on
signaling, glucose uptake, and GLUT4 translocation in L6-GLUT4myc myotubes
SO Journal of Cellular Physiology (2003), 197(1), 122-130
CODEN: JCLLAX; ISSN: 0021-9541

AU Tajmir, Panteha; Kwan, Jamie Jun-Mae; Kessas, Mona; Mozammel, Shehzin;
Sweeney, Gary

AN 2003:713728 HCAPLUS

DN 140:1133

L194 ANSWER 5 OF 14 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
TI LEPTIN ENHANCES PDGF-DEPENDENT CELL GROWTH IN HEPATIC STELLATE CELLS:
INVOLVEMENT OF THE PI3K-AKT PATHWAY. . .

SO Digestive Disease Week Abstracts and Itinerary Planner, (2003) Vol. 2003,
pp. Abstract No. 254. e-file.

Meeting Info.: Digestive Disease 2003. FL, Orlando, USA. May 17-22, 2003.
American Association for the Study of Liver Diseases; American
Gastroenterological Association; American Society for Gastrointestinal
Endoscopy; Society for Surgery of the Alimentary Tract.

AU Ikejima, Kenichi [Reprint Author]; Lang, Tie [Reprint Author]; Yoshikawa,
Mutsuko [Reprint Author]; Hirose, Miyoko [Reprint Author]; Kitamura,
Tsuneo [Reprint Author]; Takei, Yoshiyuki [Reprint Author]; Sato, Nobuhiro
[Reprint Author]

AN 2004:26045 BIOSIS

L194 ANSWER 6 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN
DUPLICATE 4

TI Biphasic regulation of extracellular-signal-regulated protein kinase by
leptin in macrophages: role in regulating STAT3 Ser(727)
phosphorylation and DNA binding

SO BIOCHEMICAL JOURNAL, (15 JUN 2002) Vol. 364, Part 3, pp. 875-879.
ISSN: 0264-6021.

AU O'Rourke L; Shepherd P R (Reprint)

AN 2002:544834 SCISEARCH

L194 ANSWER 7 OF 14 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights
reserved on STN

TI Ghrelin, an orexigenic signaling molecule from the gastrointestinal tract.
SO Current Opinion in Pharmacology, (1 Dec 2002) Vol. 2, No. 6, pp. 665-668.
Refs: 50
ISSN: 1471-4892 CODEN: COPUBK

AU Kojima, Masayasu (correspondence)

CS Molecular Genetics, Institute of Life Science, Kurume University, Kurume,
Fukuoka 839-0861, Japan. mkojima@lsi.kurume-u.ac.jp

AU Kangawa, Kenji

CS Department of Biochemistry, National Cardiovascular Center, Research
Institute, Fujishirodai, Suita, Osaka 565-8565, Japan.

AN 2002460419 EMBASE

L194 ANSWER 8 OF 14 MEDLINE on STN
DUPLICATE 5

TI Leptin effect on endothelial nitric oxide is mediated through
Akt-endothelial nitric oxide synthase phosphorylation pathway.

SO Diabetes, (2002 Jan) Vol. 51, No. 1, pp. 168-73.

Journal code: 0372763. ISSN: 0012-1797.

AU Vecchione Carmine; Maffei Angelo; Colella Salvatore; Aretini Alessandra; Poulet Roberta; Frati Giacomo; Gentile Maria Teresa; Fratta Luigi; Trimarco Valentina; Trimarco Bruno; Lembo Giuseppe

AN 2002045139 MEDLINE

L194 ANSWER 9 OF 14 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights reserved on STN DUPLICATE 6

TI Evaluation of methods for determination of a reconstructed history of gene sequence evolution.

SO Molecular Biology and Evolution, (2001) Vol. 18, No. 11, pp. 2040-2047.

Refs: 31

ISSN: 0737-4038 CODEN: MBEVEO

AU Liberles, D.A. (correspondence)

CS Department of Biochemistry, Stockholm Bioinformatics Center, Stockholm University, 106 91 Stockholm, Sweden. liberles@sbc.su.se

AN 2001387705 EMBASE

L194 ANSWER 10 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN

TI Serum values of proinflammatory cytokines are inversely correlated with serum leptin levels in patients with advanced stage cancer at different sites

SO JOURNAL OF MOLECULAR MEDICINE-JMM, (JUL 2001) Vol. 79, No. 7, pp. 406-414.

ISSN: 0946-2716.

AU Mantovani G (Reprint); Maccio A; Madeddu C; Mura L; Massa E; Mudu M C; Mulas C; Lusso M R; Gramignano G; Piras M B

AN 2001:626038 SCISEARCH

L194 ANSWER 11 OF 14 MEDLINE on STN DUPLICATE 7

TI Selective interaction between leptin and insulin signaling pathways in a hepatic cell line.

SO Proceedings of the National Academy of Sciences of the United States of America, (2000 Feb 29) Vol. 97, No. 5, pp. 2355-60.

Journal code: 7505876. ISSN: 0027-8424.

AU Szanto I; Kahn C R

AN 2000160956 MEDLINE

L194 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Lipoapoptosis in beta-cells of obese prediabetic fa/fa rats. Role of serine palmitoyltransferase overexpression

SO Journal of Biological Chemistry (1998), 273(49), 32487-32490

CODEN: JBCHA3; ISSN: 0021-9258

AU Shimabukuro, Michio; Higa, Moritake; Zhou, Yan-Ting; Wang, May-Yun; Newgard, Christopher B.; Unger, Roger H.

AN 1998:797445 HCAPLUS

DN 130:151958

L194 ANSWER 13 OF 14 MEDLINE on STN DUPLICATE 8

TI Ligand-independent dimerization of the extracellular domain of the leptin receptor and determination of the stoichiometry of leptin binding.

SO The Journal of biological chemistry, (1997 Jul 18) Vol. 272, No. 29, pp. 18304-10.

Journal code: 2985121R. ISSN: 0021-9258.

AU Devos R; Guisez Y; Van der Heyden J; White D W; Kalai M; Fountoulakis M; Plaetinck G

AN 97364760 MEDLINE

L194 ANSWER 14 OF 14 MEDLINE on STN DUPLICATE 9

TI A constitutively active version of the Ser/Thr kinase Akt induces production of the ob gene product, leptin, in 3T3-L1

adipocytes.
SO Endocrinology, (1997 Aug) Vol. 138, No. 8, pp. 3559-62.
Journal code: 0375040. ISSN: 0013-7227.
AU Barthel A; Kohn A D; Luo Y; Roth R A
AN 97375495 MEDLINE

=> d ab 12

L194 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN

AB We reported that the lipoapoptosis of beta-cells observed in fat-laden islets of obese fa/fa Zucker Diabetic Fatty (ZDF) rats results from overprodn. of ceramide, an initiator of the apoptotic cascade and is induced by long-chain fatty acids (FA). Whereas the ceramide of cytokine-induced apoptosis may be derived from sphingomyelin hydrolysis, FA-induced ceramide overprodn. seems to be derived from FA. We therefore semiquantified mRNA of serine palmitoyltransferase (SPT), which catalyzes the first step in ceramide synthesis. It was 2-3-fold higher in fa/fa islets than in +/- controls. [3H]Ceramide formation from [3H]serine was 2.2-4.5-fold higher in fa/fa islets. Triacsin-C, which blocks palmitoyl-CoA synthesis, and L-cycloserine, which blocks SPT activity, completely blocked [3H]ceramide formation from [3H]serine. Islets of fa/fa rats are unresponsive to the lipopenic action of leptin, which normally depletes fat and prevents FA up-regulation of SPT. To determine the role of leptin unresponsiveness in the SPT overexpression, we transferred wild type OB-Rb cDNA to their islets; now leptin completely blocked the exaggerated FA-induced increase of SPT mRNA while reducing the fat content. Beta-cell lipoapoptosis was partially prevented in vivo by treating prediabetic ZDF rats with L-cycloserine for 2 wk. Ceramide content and DNA fragmentation both declined 40-50%. We conclude that lipoapoptosis of ZDF rats is mediated by enhanced ceramide synthesis from FA and that blockade by SPT inhibitors prevents lipoapoptosis.

=> log y

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